

EXTENDABLE COUPLING STRUCTURE FOR USE IN AN ENGINE

ABSTRACT OF THE DISCLOSURE

An extendable coupling structure used in an engine and coupled
5 between a piston and a crankshaft is constructed to include, a first connector
pivoted to the piston, a second connector pivoted to the crankshaft, a hinge
coupled between the first connector and the second connector, and a
spring-based guide coupled between the bottom end of the first connector and
the top end of the second connector and adapted to guide movement of the first
10 connector and the second connector between a close position and an open
position and to accelerate rotation of the crankshaft.